



Code: 9158
Family: Public Safety
Service: Public Safety
Group: Police Service
Series: Police General Duty

CLASS TITLE: EXPLOSIVE TECHNICIAN I

CHARACTERISTICS OF THE CLASS

Under general supervision, responds immediately to area, assesses situation in terms of type of bomb, location (car, building, in-ground mine, or near an area such as a power station, within a store, etc.) and after determining best approach, renders safe improvised explosive devices or suspected explosive and incendiary devices, and performs related duties as required

ESSENTIAL DUTIES

- Investigates, renders safe, and disposes of suspected hazardous devices, explosives, explosive materials (as the Bureau of Alcohol, Tobacco, Firearms, and Explosives, currently defines), pyrotechnics, and ammunition
- Performs diagnostics and render safe procedures in Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE) events
- Retrieves, renders safe, and transports improvised explosive devices or suspected explosive and incendiary devices
- Maintain relationships with government agencies such as the Federal Bureau of Investigation, Bureau of Alcohol, Tobacco and Firearms, and Department Homeland Security and other local, state and federal partners so as to effectively coordinate investigations with one or more of these types of agencies
- Conducts bomb crime scene investigations, and collects, and preserves evidence
- Maintains equipment utilized in bomb disposal work utilizing a portable x-ray machine, various diagnostic tools, rigging systems, robotics, and bomb suit
- Recovers and disposes of explosive materials and precursors by detonation or burning
- Conducts disposal of recovered pyrotechnics
- Presents lectures regarding bomb threat procedures to police, school officials, government representatives, business executives/owners, other sister agencies, etc.
- Acquires knowledge of electrical and electronic circuits
- Stays abreast of the latest innovations in Improvised Explosive Device (IED) and military ordnance, chemical and biological weapons, as well as latest procedures to identify, deactivate, and transport hazardous devices
- Stays abreast of latest safety equipment, tools, and render safe procedures
- Identifies pranks and hoax devices quickly, as they may comprise a significant number of calls, and may delay response time to a critical issue

NOTE: *The list of essential duties is not intended to be inclusive; there may be other duties that are essential to particular positions within the class.*

MINIMUM QUALIFICATIONS

Education, Training, and Experience

- Be a Police Officer below the rank of Sergeant, have a minimum of three (3) years of continuous service as a Police Officer with the City of Chicago; including the 18 months probationary period;
- Bachelor's degree from an accredited college or university is preferred
- Formal Chicago Police Department Training to be completed before assigned as Explosives Tech I
- Each officer must successfully complete a 240 hour training certification program at the FBI Hazardous Devices School in Huntsville, Alabama prior to be assigned to field duty

Licensure, Certification, or Other Qualifications

- Must pass the examination procedures for Explosive Tech I
- Must maintain the ability to safely handle and use a Department approved firearm
- Must obtain a Hazardous Materials Certificate
- Must obtain Explosives License from Illinois Department of Natural Resources once selected to the position of Explosives Technician I 3 months

WORKING CONDITIONS

- Police facility environment
- Working in situations that are dangerous, and where all facts may not be known about the explosive device
- Assignment anywhere within the boundaries of the City of Chicago
- Assignment Duty hours may be any time. Department operates twenty-four (24) hours a day, every day of the year, including weekends and recognized holidays – duty hours are subject change
- Interact with public in a variety of situations
- Exposure to outdoor weather conditions including extreme weather situations
- Exposure to hazardous or life threatening situations

EQUIPMENT

- Officer – Ballistic Eyewear, Body Armor, Plate Carriers, Wireless Blast Gauge, Bomb Suit and Helmet (protect against blast overpressure, fragmentation, impact (acceleration and deceleration) and heat/flame).
- Level A Personal Protective Equipment (PPE), with Self-Contained Breathing Apparatus (SCBA) to provide a level of chemical and biological protection with SCBA to be worn within CBRN suits to provide a level of chemical / biological (CBRN) blast protection
- Body cooling system that is an option or may be required as part of the Bomb Suit to mitigate the risk of heat stress
- Various detection kits for use in buildings, offices, homes, or vehicles, and tool kits (wire cutters, tape, optic fiberscope, epoxy, pry bar, hole cutter, and step drill bit), and other equipment such as Hook and Line Kit

- When in office completing reports - Standard office equipment (e.g., telephone, printer, photocopier, fax machine, calculator, and computer)
- When in field - laptops, tablets and other hand-held computers, modems, and other required peripheral equipment

PHYSICAL REQUIREMENTS

- Using muscular force to lift, carry, drag, push or otherwise move objects using strength in one's arms, hands, back, shoulders and/or legs
 - Using the necessary force to restrain a person when making an arrest
 - Quickly bending, stretching, twisting, or reaching out with one's body, arms, and/or legs
 - Standing for extended or continuous periods of time
 - Sitting for extended periods of time
 - Walking for extended periods of time
 - Safely and lawfully operating automotive vehicles and associated equipment
 - Hearing and recognizing the normal range of sounds in terms of loudness, pitch, tone, patterns or rhythms, or duration
 - Remaining alert or vigilant and reacting to infrequent but important events or specific details within a stream of information (e.g., alarms, radio)
 - Seeing detail at various distances (e.g., normal reading distance, beyond arm length) and reading ordinary/small print
 - Must pass all phases of the selection process, including a medical evaluation, drug screen, and physical performance test
- Working in cumbersome suit and manipulating precision equipment in sometimes difficult to access areas.

KNOWLEDGE, SKILLS, ABILITIES, AND OTHER WORK REQUIREMENTS

Knowledge

Comprehensive knowledge of:

- all police procedures, especially those pertaining to bomb protection equipment and hazardous device render safe procedures
- different types of bombs such as IEDs, traditional explosives, chemical and biological release, consumer products modified to serve as an explosive (heaters, boilers, automobiles, etc.)
- timing devices
- person Bourne Improvised Explosive Device countermeasures
- use of traditional and specialized diagnostic tools and render safe an explosive device

Good knowledge of:

- *general powers and authorities of law enforcement officers, including public safety and security procedures and strategies to effectively enforce laws and protect lives and property
- *federal, state and municipal criminal and traffic laws and ordinances and related departmental policies, directives, and resources

- constitutional and other legal protections associated with investigative and interviewing processes
- evidence protection, recovery, and collection procedures and techniques
- notification requirements, systems, and procedures used for internal reporting and communication with external agencies
- processing of persons under Department control, including handling of special populations
- *practices and procedures used in community policing
- *geographical locations in the City of Chicago
- *traffic operations and City's street address grid
- *ground traffic control management
- Knowledge of applicable City and department policies, procedures, rules, and regulations

Skills

- *CRITICAL THINKING – Use logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems
- *MATHEMATICS - Use mathematics to solve problems
- *COMPLEX PROBLEM SOLVING – Identify complex problems and review related information to develop and evaluate options and implement solutions
- *JUDGEMENT AND DECISION MAKING – Consider the relative costs and benefits of potential actions to choose the most appropriate one
- *ACTIVE LEARNING - Understand the implications of new information for both current and future problem-solving and decision-making
- *RESOLVING CONFLICTS AND INFLUENCING OTHERS - Resolve disputes between groups and individuals; negotiate with others to influence behaviors, opinions; deal effectively with various members of the public; handle upset and injured victims, get people to cooperate
- *ORGANIZATIONAL AWARENESS AND COMMITMENT - Remain firm in one's allegiance to the Department's core values and faithful in pursuit of the Department's mission despite obstacles or opposition; follow Department policies and regulations and show support for their intent and value; demonstrate positive regard for the Department and personal role; show respect for members in positions of authority; work in a chain-of-command environment
- *SERVICE ORIENTATION – Actively look for ways to help people
- *FINE MOTOR SKILLS to work with sources in various conditions of quality, use of tools such as small ones to lift fingerprints

Abilities

- *COMPREHEND ORAL INFORMATION – Listen to and understand information and ideas presented through spoken words and sentences
- *PUBLIC SPEAKING - Make formal presentations before large or small audiences
- *SPEAKING – Communicate information and ideas in speaking so others will understand
- *ACTIVE LISTENING – Give full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times

- *COMPREHEND WRITTEN INFORMATION – Read and understand information and ideas presented in writing
- *WRITE – Communicate information and ideas in writing so others will understand.
- *MEMORIZATION – Remember information such as words, numbers, picture, and procedures
- *RECOGNIZE PROBLEMS – Tell when something is wrong or is likely to go wrong
- *REACH CONCLUSIONS – Combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events)
- *MAKE DECISIONS AND SOLVE PROBLEMS – Analyze information and evaluate results to choose the best solution and solve problems
- DETAIL ORIENTATION – Accurately tracking and reviewing significant amount of data points, and accurate record processing

Other Work Requirements

- *ANALYTICAL THINKING – Analyze information and use logic to address work or job issues and problems
- *ATTENTION TO DETAIL – Pay careful attention to detail and thoroughness in completing work tasks
- *COOPERATION – Be pleasant with others on the job and display a good-natured, cooperative attitude
- *CONCERN FOR OTHERS – Demonstrate sensitivity to others' needs and feelings and be understanding and helpful on the job
- *SELF CONTROL – Maintain composure, keep emotions in check even in very difficult situations, control anger and avoid aggressive behavior
- *STRESS TOLERANCE – Accept criticism and deal calmly and effectively with high stress situations
- *PERSISTENCE – Persist in the face of obstacles on the job
- *DEPENDABILITY – Demonstrate reliability, responsibility, and dependability and fulfill obligations
- *INITIATIVE – Demonstrate willingness to take on job challenges
- *INTEGRITY – Be honest and avoid unethical behavior
- *ADAPTABILITY/FLEXIBILITY – Be open to change (positive or negative) and to considerable variety in the workplace
- *LEADERSHIP - Demonstrate willingness to lead, take charge, and offer opinions and direction

All employees of the City of Chicago must demonstrate commitment to and compliance with applicable state and federal laws, and City ordinances and rules; the City's Ethics standards; and other City policies and procedures.

The City of Chicago will consider equivalent foreign degrees, accreditations, and credentials in evaluating qualifications.

* May be required at entry.